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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/770,410	01/25/2001	Christian Huber	P-576 6186		
7590 05/02/2006			EXAMINER		
Jane Massey Licata, Esquire			THERKORN, ERNEST G		
Licata & Tyrrell P.C. 66 E. Main Street Marlton, NJ 08053			ART UNIT	PAPER NUMBER	
			1723		
			DATE MAILED: 05/02/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.		Applicant(s)					
		09/770,410		HUBER ET AL.					
		Examiner		Art Unit					
		Ernest G. Therkor		1723					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAINS ons of time may be available under the provisions of 37 CFR 1.13 of SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS CO 36(a). In no event, however will apply and will expire S , cause the application to	MMUNICATION ver, may a reply be time SIX (6) MONTHS from to become ABANDONED	Bly filed the mailing date of this co (35 U.S.C. § 133).	,				
Status									
1)⊠	Responsive to communication(s) filed on 10 Ap	oril 2006.							
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.								
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims								
5)□ 6)⊠ 7)□	Claim(s) 51-76,79-81,84-92,95 and 97 is/are per 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 51-76,79-81,84-92,95 and 97 is/are reclaim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from considera	ition.						
Applicati	ion Papers								
9)[The specification is objected to by the Examiner	r.		•					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachmen	it(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.									
3) 🛛 Inforr	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	5) 🔲 N		e tent Application (PTO	-152)				

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 51-76, 79-81, 84-92, 95, and 97 are rejected under 35 U.S.C. 102(A) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Gusev, Journal of Chromatography, 1999, pages 273-290. The claims are considered to read on Gusev, Journal of Chromatography, 1999, pages 273-290. However, if a difference exists between the claims and Gusev, Journal of Chromatography, 1999, pages 273-290, it would reside in optimizing the elements of Gusev, Journal of Chromatography, 1999, pages 273-290. It would have been obvious to optimize the elements of Gusev, Journal of Chromatography, 1999, pages 273-290 to enhance separation.

Claims 57-58 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gusev, Journal of Chromatography, 1999, pages 273-290 in view of Peters (U.S. Patent No. 5,929,214). At best, the claims differ from Gusev, Journal of Chromatography, 1999, pages 273-290 in reciting channels sufficiently large to allow convective flow. Peters (U.S. Patent No. 5,929,214) (column 2, lines 27-37) discloses

that large channels that allow convective flow also allow high flow rates through a monolith. It would have been obvious to have sufficiently large channels to allow convective flow in Gusev, Journal of Chromatography, 1999, pages 273-290 because Peters (U.S. Patent No. 5,929,214) (column 2, lines 27-37) discloses that large channels that allow convective flow also allow high flow rates through a monolith.

Claim 91 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gusev, Journal of Chromatography, 1999, pages 273-290 in view of Girot (U.S. Patent No. 6,045,697). At best, the claim differs from Gusev, Journal of Chromatography, 1999, pages 273-290 in reciting use of a tetrahydrofuran porogen. Girot (U.S. Patent No. 6,045,697) (column 16, lines 3-16) discloses that tetrahydrofuran is a suitable porogen. It would have been obvious to use tetrahydrofuran as a porogen in Gusev, Journal of Chromatography, 1999, pages 273-290 because Girot (U.S. Patent No. 6,045,697) (column 16, lines 3-16) discloses that tetrahydrofuran is a suitable porogen.

Claim 95 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gusev, Journal of Chromatography, 1999, pages 273-290 in view of either Huber (Anal. Chem. 1998, 70, 5288-5295) or Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997). At best, the claim differs from Gusev, Journal of Chromatography, 1999, pages 273-290 in reciting use of a mass spectrometer. Huber (Anal. Chem. 1998, 70, 5288-5295) (page 5288, column 1) discloses electrospray mass spectrometry allows accurate molecular determinations in the picomole range. Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997) (page 305, column 2) discloses that electrospray mass spectrometry is a gentle sensitive method of analysis. It would have been obvious to

use mass spectrometry in Gusev, Journal of Chromatography, 1999, pages 273-290 either because Huber (Anal. Chem. 1998, 70, 5288-5295) (page 5288, column 1) discloses electrospray mass spectrometry allows accurate molecular determinations in the picomole range or because Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997) (page 305, column 2) discloses that electrospray mass spectrometry is a gentle sensitive method of analysis.

Claims 51-66, 71, 73-76, 79-81, 84-85, and 95 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457). At best, the claims differ from each of Frechet (U.S. Patent No. 5,344,310) and Hatch (U.S. Patent No. 6,238,565) in reciting use of a fused silica capillary, the clarity of covalent bonding, and a size of less than one millimeter in diameter. Frechet (U.S. Patent No. 5,344,310) itself (column 4, line 27) discloses a glass column. Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. Huang (Journal of Chromatography 788 (1997) 155-164) (the paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer. Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns are the trend in chromatography because of improved concentration detection limits and the small amounts of sample available

for analysis. It would have been obvious to use a fused silica column in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) because Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. It would have been obvious that the polymer is covalently bound because Huang (Journal of Chromatography 788 (1997) 155-164) (the paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer. It would have been obvious to use a column less than 1 millimeter in diameter because Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns are the trend in chromatography because of improved concentration detection limits and the small amounts of sample available for analysis.

Claims 67-70 and 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649) and Huang (Journal of Chromatography 788 (1997) 155-164). At best, the claims differ from each of Frechet (U.S. Patent No. 5,344,310) and Hatch (U.S. Patent No. 6,238,565) in reciting use of a fused silica capillary and the clarity of covalent bonding. Frechet (U.S. Patent No. 5,344,310) itself (column 4, line 27) discloses a glass column. Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. Huang (Journal of Chromatography 788 (1997) 155-164) (the

paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer. It would have been obvious to use a fused silica column in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) because Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. It would have been obvious that the polymer is covalently bound because Huang (Journal of Chromatography 788 (1997) 155-164) (the paragraph bridging columns 1 and 2 on page 158) discloses that covalently bound vinyl groups offer anchoring sites for the polymer.

Claims 86-92 and 97 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649) and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457). At best, the claims differ from each of Frechet (U.S. Patent No. 5,344,310) and Hatch (U.S. Patent No. 6,238,565) in reciting use of a fused silica capillary and a size of less than one millimeter in diameter. Frechet (U.S. Patent No. 5,344,310) itself (column 4, line 27) discloses a glass column. Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns are the trend in chromatography because of improved concentration detection limits and the small amounts of sample

available for analysis. It would have been obvious to use a fused silica column in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) because Peters (Anal. Chem. 1997, 69, 3646-3649) (page 3646 the Abstract and page 3649, column 2) discloses that use of a fused silica column eliminates the need for initial chemical modification of the walls of the capillary. It would have been obvious to use a column less than 1 millimeter in diameter because Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) (pages 27-28) discloses that smaller diameter columns are the trend in chromatography because of improved concentration detection limits and the small amounts of sample available for analysis.

Claims 57-58 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) as applied to claims 51-66, 71, 73-76, 79-81, 84-85, and 95 above, and further in view of Peters (U.S. Patent No. 5,929,214). At best, the claims differ from either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) in reciting channels sufficiently large to allow convective flow. Peters (U.S. Patent No. 5,929,214) (column 2, lines 27-37) discloses that large channels that allow convective flow also allow high flow rates through a monolith. It would have been obvious to have sufficiently large channels to allow convective flow in either Frechet (U.S. Patent No. 5,344,310) or Hatch

(U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649),
Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass
Spectrometry Reviews, 1994, 13, 431-457) because Peters (U.S. Patent No. 5,929,214)
(column 2, lines 27-37) discloses that large channels that allow convective flow also allow high flow rates through a monolith.

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Claim 95 is rejected under 35 U.S.C. 103(a) as being unpatentable over either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788

(1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) as applied to claims 51-66, 71, 73-76, 79-85, and 95 above, and further in view of either Huber (Anal. Chem. 1998, 70, 5288-5295) or Griffey (Journal of Mass Spectrometry. Vol. 32, 305-313 1997). At best, the claim differs from either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) in reciting use of a mass spectrometer. Huber (Anal. Chem. 1998, 70, 5288-5295) (page 5288, column 1) discloses electrospray mass spectrometry allows accurate molecular determinations in the picomole range. Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997) (page 305, column 2) discloses that electrospray mass spectrometry is a gentle sensitive method of analysis. It would have been obvious to use mass spectrometry in either Frechet (U.S. Patent No. 5,344,310) or Hatch (U.S. Patent No. 6,238,565) in view of Peters (Anal. Chem. 1997, 69, 3646-3649), Huang (Journal of Chromatography 788 (1997) 155-164), and Tomer (Mass Spectrometry Reviews, 1994, 13, 431-457) either because Huber (Anal. Chem. 1998, 70, 5288-5295) (page 5288, column 1) discloses electrospray mass spectrometry allows accurate molecular determinations in the picomole range or because Griffey (Journal of Mass Spectrometry, Vol. 32, 305-313 1997) (page 305, column 2) discloses that electrospray mass spectrometry is a gentle sensitive method of analysis.

The remarks urge that Gusev, Journal of Chromatography, 1999, pages 273-290 and Hatch (U.S. Patent No. 6,238,565) are not proper prior art references because the

present invention was invented prior to the publication of Gusey, Journal of Chromatography, 1999, pages 273-290 and Hatch (U.S. Patent No. 6.238,565). However, the 37 CFR 1.131 declarations of March 6, 2006 and March 25, 2004 fail to overcome Gusev, Journal of Chromatography, 1999, pages 273-290 Gusev, Journal of Chromatography, 1999, pages 273-290 and Hatch (U.S. Patent No. 6,238,565) as references. First, the declarations of March 6, 2006 and March 25, 2004 are not signed by all the inventors as required by MPEP 715.04. Second, the declaration of March 25, 2004 does not state that the work was done in the U.S., a NAFTA country, or a WTO country. Third, the evidence submitted is insufficient to establish applicants' alleged actual reduction to practice of the invention in this country or a NAFTA or WTO member country prior to the effective date of the references. For example, there appears to be no indication in the notebook that the monolith was in a fused silica tube having a diameter in the range or 1 to 1000 micrometers, the chromatographic surfaces were non-polar, or the matrix was underivatized. The hand written portions of the notebook appear to be either in a non-English language, illegible, or both.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Ernest G. Therkorn Primary Examiner Art Unit 1723

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EGT April 28, 2006